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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/994,982	11/26/2001	Xia Dai	P9724X	2963

45209 7590 10/12/2005

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LOS ANGELES, CA 90025-1030

EXAMINER

YANCHUS III, PAUL B

ART UNIT	PAPER NUMBER
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2116

DATE MAILED: 10/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	09/994,982	DAI, XIA	
	Examiner	Art Unit	
	Paul B. Yanchus	2116	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 19 July 2005.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 10-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 10-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

### DETAILED ACTION

This non-final office action is in response to communications filed on 7/19/05.

#### *Double Patenting*

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-5, 10-12, 15, 16, 18, 19, 21 and 22 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 and 9 of U.S. Patent No. 6,941,480.

Regarding claims 1, 4, 10, 15 and 18 although the conflicting claims are not identical, they are not patentably distinct from each other because as one of ordinary skill in the art would realize, it is well known in the art to supply a clock signal to a processor from a clock generator and it would have been obvious to one of ordinary skill in the art to use a well known clock generator to provide a clock signal to the processor.

Regarding claims 2, 11, 16, 19 and 22, although the conflicting claims are not identical, they are not patentably distinct from each other because as one of ordinary skill in the art would realize, the contents of a processor cache will be maintained when the processor is active.

Regarding claims 3 and 12, although the conflicting claims are not identical, they are not patentably distinct from each other because as one of ordinary skill in the art would realize, a processor is commonly used to perform graphics controlling operations and it would have been obvious to one of ordinary skill in the art to implement the processor in a graphics device.

Regarding claim 5, although the conflicting claims are not identical, they are not patentably distinct from each other because C0 mode is part of the well known ACPI specification and it would have been obvious to one of ordinary skill in the art to adhere to the well known ACPI specification in order to maximize the system compatibility with other devices and software.

Regarding claim 21, although the conflicting claims are not identical, they are not patentably distinct from each other as one of ordinary skill in the art would realize, switching performance modes of a processor in a portable unit is conventionally done to save power in a portable unit and it would have been obvious to one of ordinary skill in the art to incorporate the teachings of claim 1 of US Patent no. 6,941,480 into a portable unit in order to improve computing performance of the portable unit.

Claims 13, 14, 17 and 20 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 and 9 of U.S. Patent No. 6,941,480 in view of Gebara et al., US Patent no. 6,035,407 [Gebara]<sup>1</sup>.

Regarding claims 13, 17 and 20, claims 1 and 9 of U.S. Patent No. 6,941,480 does not specifically disclose how the voltage regulator adjusts the voltage supplied to the computer

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<sup>1</sup> included in previous office action

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system component. Gebara discloses a table representation associated with a stepwise ramp that specifies that the voltage level will be adjusted by a predetermined amount of voltage at intervals of a predetermined amount of time [column 8, lines 56-60]. One would be motivated to use the Gebara voltage regulator in the Noble and Clark system to gradually adjust the voltage supplied to the computer system component in order to prevent the voltage regulator overvoltage or undervoltage circuitry from being falsely activated [Gebara, column 8, lines 60-63].

Regarding claim 14, Gebara does not specifically disclose ramping the voltage in 25-50mV steps. However, Gebara does disclose gradually ramping the voltage in steps of a predetermined size and gives an example size of 100mV. It would have been obvious to one of ordinary skill in the art to reduce the voltage step size from 100mV to 25-50mV. One would be motivated enable a more gradual change from the first voltage level to the second voltage level to prevent overvoltage or undervoltage tracking circuitry from being falsely activated [column 8, lines 60-63].

### *Conclusion*


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul B. Yanchus whose telephone number is (571) 272-3678. The examiner can normally be reached on Mon-Thurs 8:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H. Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Yanchus  
October 6, 2005



**LYNNE H. BROWNE**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2100**